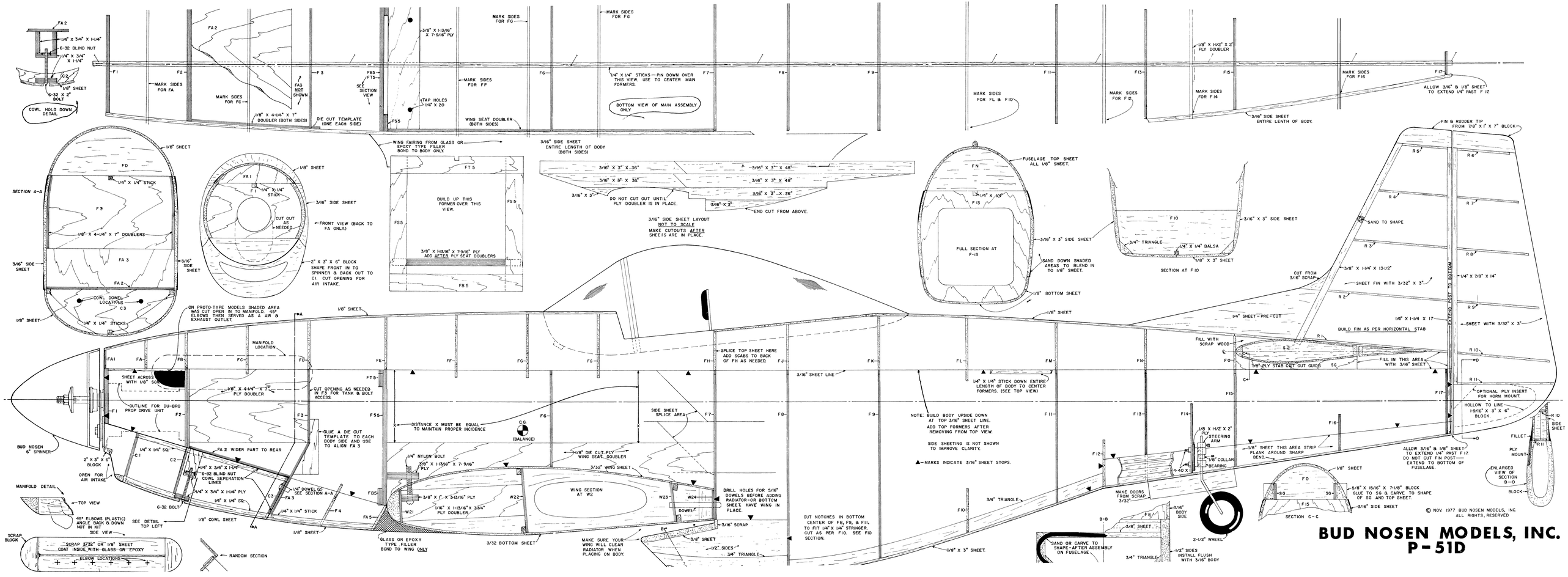
FA 2
1/4" X 3/4" X 1-1/4"
6-32 BLIND NUT
1/4" X 3/4" X 1-1/4"
C2
1/8" SHEET
6-32 X 2" BOLT
COWL HOLD DOWN DETAIL
F1
F2
MARK SIDES FOR FA
MARK SIDES FOR FC
FA3 NOT SHOWN
F3
1/8" X 4-1/4" X 7" DOUBLER (BOTH SIDES)
DIE CUT TEMPLATE (ONE EACH SIDE)
FB5
FT5
SEE SECTION VIEW
FS5
3/8" X 1-13/16" X 7-9/16" PLY
TAP HOLES 1/4" X 20
MARK SIDES FOR FG
MARK SIDES FOR FF
WING SEAT DOUBLER (BOTH SIDES)
F6
1/4" X 1/4" STICKS — PIN DOWN OVER THIS VIEW. USE TO CENTER MAIN FORMERS.
BOTTOM VIEW OF MAIN ASSEMBLY ONLY
F7
F8
F9
F11
MARK SIDES FOR FL & F10
F13
MARK SIDES FOR F12
1/8" X 1-1/2" X 2" PLY DOUBLER
F15
MARK SIDES FOR F14
MARK SIDES FOR F16
F17
ALLOW 3/16" & 1/8" SHEET TO EXTEND 1/4" PAST F 17.
3/16" SIDE SHEET ENTIRE LENTH OF BODY.
1/8" SHEET
FD
1/4" X 1/4" STICK
SECTION A-A
F3
1/8" X 4-1/4" X 7" DOUBLERS
FA 3
3/16" SIDE SHEET
FA2
COWL DOWEL LOCATIONS
C3
1/4" X 1/4" STICKS
FA1
F1
1/4" X 1/4" STICK
CUT OUT AS NEEDED
3/16" SIDE SHEET
FRONT VIEW (BACK TO FA ONLY.)
2" X 3" X 6" BLOCK SHAPE FRONT IN TO SPINNER & BACK OUT TO C1. CUT OPENING FOR AIR INTAKE.
WING FAIRING FROM GLASS OR EPOXY TYPE FILLER BOND TO BODY ONLY.
FT 5
BUILD UP THIS FORMER OVER THIS VIEW.
FS5
3/8" X 1-13/16" X 7-9/16" PLY ADD AFTER PLY SEAT DOUBLERS
FB 5
3/16" SIDE SHEET ENTIRE LENGTH OF BODY (BOTH SIDES)
3/16" X 3" X 36"
3/16" X 3" X 36"
3/16" X 3"
DO NOT CUT OUT UNTIL PLY DOUBLER IS IN PLACE.
3/16" X 3" X 48"
3/16" X 3" X 48"
3/16" X 3" X 36"
3/16" X 3"
END CUT FROM ABOVE.
3/16" SIDE SHEET LAYOUT NOT TO SCALE MAKE CUTOUTS AFTER SHEETS ARE IN PLACE.
FN
FUSELAGE TOP SHEET ALL 1/8" SHEET.
1/4" X 1/4"
F 13
FULL SECTION AT F-13
3/16" X 3" SIDE SHEET
SAND DOWN SHADED AREAS TO BLEND IN TO 1/8" SHEET.
1/8" BOTTOM SHEET
F 10
3/16" X 3" SIDE SHEET
3/4" TRIANGLE
1/4" X 1/4" BALSA
1/8" X 3" SHEET
SECTION AT F10
FIN & RUDDER TIP FROM 7/8" X 1" X 7" BLOCK
R 5
R 6
R 4
R 7
SAND TO SHAPE
R 3
R 8
3/8" X 1-1/4" X 13-1/2"
CUT FROM 3/16" SCRAP
SHEET FIN WITH 3/32" X 3"
EXTEND POST TO BOTTOM
1/4" X 7/8" X 14"
R 2
R 9
1/4" X 1-1/4" X 17"
SHEET WITH 3/32" X 3"
1/4" SHEET — PRE-CUT
BUILD FIN AS PER HORIZONTAL STAB
R 1
FILL WITH SCRAP WOOD
S 2
R 10
1/8" PLY STAB CUT OUT GUIDE
SG
FILL IN THIS AREA WITH 3/16" SHEET
D
C
R 11
OPTIONAL PLY INSERT FOR HORN MOUNT.
HOLLOW TO LINE 1-9/16" X 3" X 6" BLOCK.
R 10
SIDE SHEET
FILLET
R 11
PLY MOUNT
ENLARGED VIEW OF SECTION D-D
BLOCK
1/8" SHEET
ON PROTO-TYPE MODELS SHADED AREA WAS CUT OPEN IN TO MANIFOLD. 45° ELBOWS THEN SERVED AS A AIR & EXHAUST OUTLET.
MANIFOLD LOCATION
SHEET ACROSS WITH 1/8" SCR
1/8" X 4-1/4" X 7" PLY DOUBLER
CUT OPENING AS NEEDED IN F3 FOR TANK & BOLT ACCESS.
OUTLINE FOR DU-BRO PROP DRIVE UNIT
GLUE A DIE CUT TEMPLATE TO EACH BODY SIDE AND USE TO ALIGN FA 3
FA 2 WIDER PART TO REAR
DISTANCE X MUST BE EQUAL TO MAINTAIN PROPER INCIDENCE
C.G. (BALANCE)
SIDE SHEET SPLICE AREA
SPLICE TOP SHEET HERE ADD SCABS TO BACK OF FIN AS NEEDED.
3/16" SHEET LINE
1/4" X 1/4" STICK DOWN ENTIRE LENGTH OF BODY TO CENTER FORMERS. (SEE TOP VIEW)
NOTE: BUILD BODY UPSIDE DOWN AT TOP 3/16" SHEET LINE. ADD TOP FORMERS AFTER REMOVING FROM TOP VIEW.
SIDE SHEETING IS NOT SHOWN TO IMPROVE CLARITY.
▲ - MARKS INDICATE 3/16" SHEET STOPS.
BUD NOSEN 6" SPINNER
2" X 3" X 6" BLOCK
OPEN FOR AIR INTAKE
1/4" X 1/4" SQ.
C1
C2
1/4" X 3/4" X 1-1/4"
6-32 BLIND NUT COWL SEPERATION LINES
1/4" X 3/4" X 1-1/4" PLY
1/4" X 1/4" SQ.
C3
1/4" DOWEL (2) SEE SECTION A-A
FA 3
1/4" X 1/4" STICK
6-32 BOLT
SEE DETAIL TOP LEFT
1/8" COWL SHEET
1/8" SHEET
1/4" NYLON BOLT
3/8" X 1-13/16" X 7-9/16" PLY
1/8" DIE CUT PLY WING SEAT DOUBLER
3/32" WING SHEET
WING SECTION AT W2
3/8" X 1" X 3-13/16" PLY
1/16" X 1-13/16" X 7-1/4" PLY DOUBLER
W21
W22
W23
W24
DOWEL
3/16" SCRAP
3/8" SHEET
1/2" SIDES
3/4" TRIANGLE
GLASS OR EPOXY TYPE FILLER BOND TO WING ONLY
3/32 BOTTOM SHEET
MAKE SURE YOUR WING WILL CLEAR RADIATOR WHEN PLACING ON BODY.
DRILL HOLES FOR 5/16" DOWELS BEFORE ADDING RADIATOR-OR BOTTOM SHEET. HAVE WING IN PLACE.
CUT NOTCHES IN BOTTOM CENTER OF F8, F9, & F11, TO FIT 1/4" X 1/4" STRINGER. CUT AS PER F10. SEE F10 SECTION.
3/4" TRIANGLE
1/8" X 3" SHEET.
1/8 X 1-1/2" X 2" PLY
STEERING ARM
1/8" COLLAR BEARING
4-40 X
1/8" SHEET THIS AREA STRIP PLANK AROUND SHARP BEND.
ALLOW 3/16" & 1/8" SHEET TO EXTEND 1/4" PAST F 17. DO NOT CUT FIN POST — EXTEND TO BOTTOM OF FUSELAGE.
MAKE DOORS FROM SCRAP 3/32"
3/16" BODY SIDE
B-B
3/8" SHEET
2-1/2" WHEEL
SAND OR CARVE TO SHAPE - AFTER ASSEMBLY ON FUSELAGE.
3/4" TRIANGLE
1/2" SIDES INSTALL FLUSH WITH 3/16" BODY
1/8" SHEET
FO
SG
F15
5/8" X 15/16" X 7-1/8" BLOCK GLUE TO SG & CARVE TO SHAPE OF SG AND TOP SHEET.
3/16" SIDE SHEET
SECTION C-C
MANIFOLD DETAIL
TOP VIEW
45° ELBOWS (PLASTIC) ANGLE BACK & DOWN NOT IN KIT
SIDE VIEW
SCRAP BLOCK
SCRAP 3/32" OR 1/8" SHEET COAT INSIDE WITH GLASS OR EPOXY
ELBOW LOCATIONS
RANDOM SECTION
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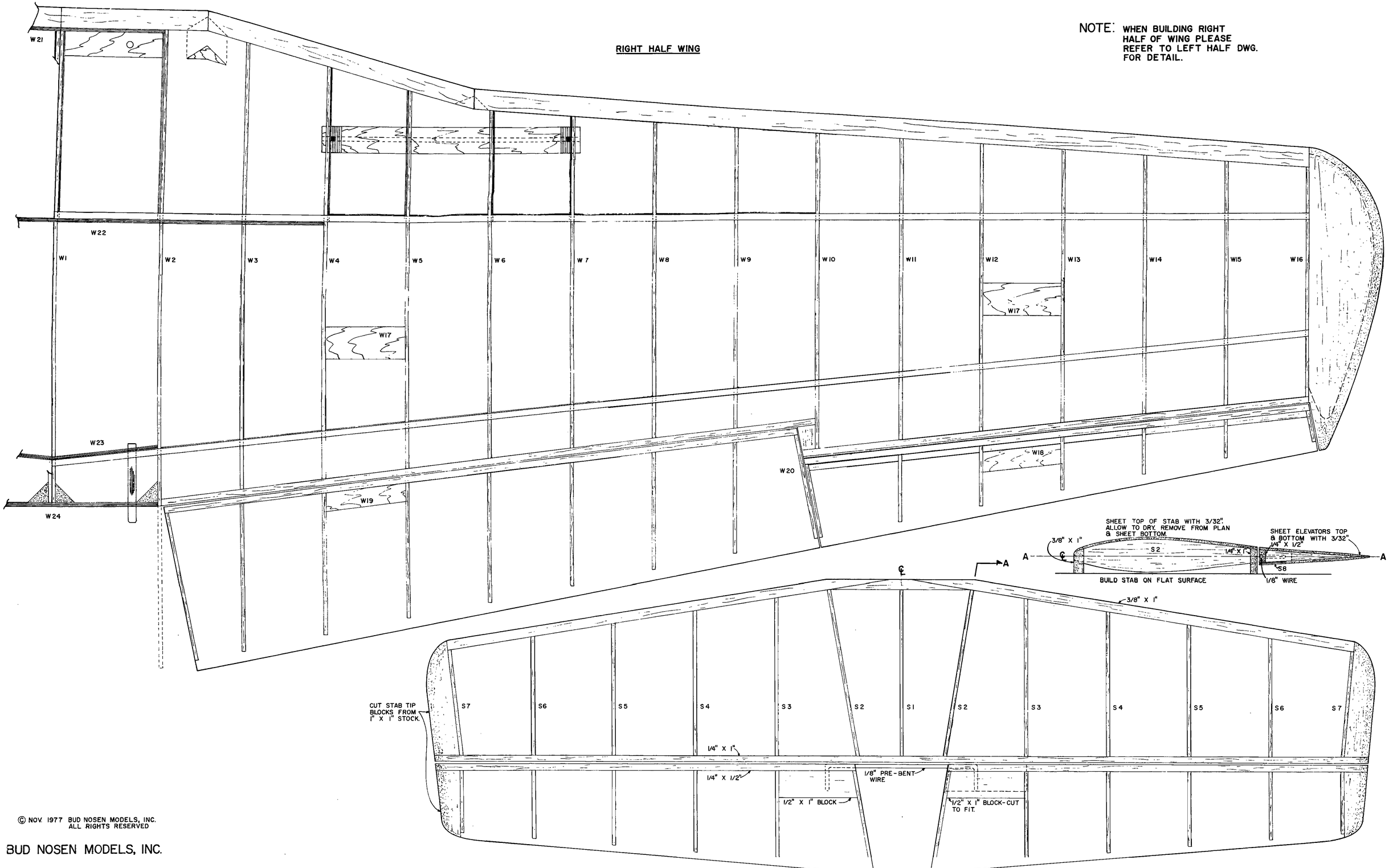
P-51D

RIGHT HALF WING

NOTE: WHEN BUILDING RIGHT HALF OF WING PLEASE REFER TO LEFT HALF DWG. FOR DETAIL.



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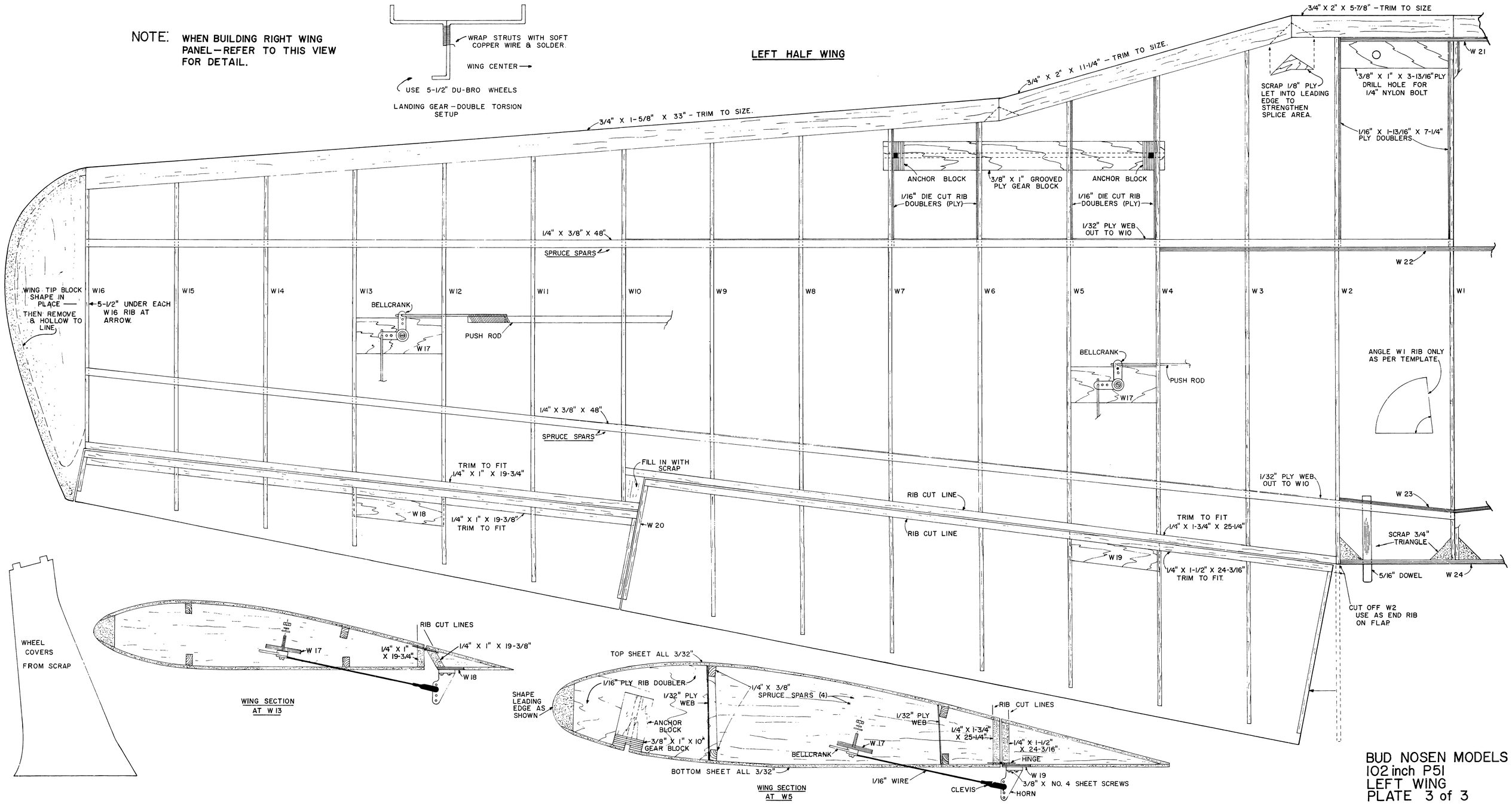
NOTE: WHEN BUILDING RIGHT WING PANEL—REFER TO THIS VIEW FOR DETAIL.
WRAP STRUTS WITH SOFT COPPER WIRE & SOLDER.
WING CENTER
USE 5-1/2" DU-BRO WHEELS
LANDING GEAR—DOUBLE TORSION SETUP
LEFT HALF WING
3/4" X 2" X 5-7/8" – TRIM TO SIZE
3/4" X 2" X 11-1/4" – TRIM TO SIZE.
3/4" X 1-5/8" X 33" – TRIM TO SIZE.
SCRAP 1/8" PLY LET INTO LEADING EDGE TO STRENGTHEN SPLICE AREA.
3/8" X 1" X 3-13/16" PLY DRILL HOLE FOR 1/4" NYLON BOLT
W 21
1/16" X 1-13/16" X 7-1/4" PLY DOUBLERS
ANCHOR BLOCK
3/8" X 1" GROOVED PLY GEAR BLOCK
ANCHOR BLOCK
1/16" DIE CUT RIB DOUBLERS (PLY)
1/16" DIE CUT RIB DOUBLERS (PLY)
1/32" PLY WEB OUT TO W10
1/4" X 3/8" X 48"
SPRUCE SPARS
W 22
WING TIP BLOCK SHAPE IN PLACE
THEN REMOVE & HOLLOW TO LINE
W16
W15
W14
W13
W12
W11
W10
W9
W8
W7
W6
W5
W4
W3
W2
W1
5-1/2" UNDER EACH W16 RIB AT ARROW.
BELLCRANK
PUSH ROD
W17
BELLCRANK
PUSH ROD
W17
ANGLE W1 RIB ONLY AS PER TEMPLATE
1/4" X 3/8" X 48"
SPRUCE SPARS
TRIM TO FIT 1/4" X 1" X 19-3/4"
FILL IN WITH SCRAP
1/32" PLY WEB OUT TO W10
W 23
RIB CUT LINE
W18
1/4" X 1" X 19-3/8" TRIM TO FIT
W 20
RIB CUT LINE
TRIM TO FIT 1/4" X 1-3/4" X 25-1/4"
SCRAP 3/4" TRIANGLE
W 19
1/4" X 1-1/2" X 24-3/16" TRIM TO FIT.
5/16" DOWEL
W 24
CUT OFF W2 USE AS END RIB ON FLAP
WHEEL COVERS FROM SCRAP
RIB CUT LINES
W 17
1/4" X 1" X 19-3/4"
1/4" X 1" X 19-3/8"
W 18
WING SECTION AT W 13
TOP SHEET ALL 3/32"
1/16" PLY RIB DOUBLER
SHAPE LEADING EDGE AS SHOWN
1/32" PLY WEB
1/4" X 3/8" SPRUCE SPARS (4)
RIB CUT LINES
1/32" PLY WEB
ANCHOR BLOCK
3/8" X 1" X 10" GEAR BLOCK
1/4" X 1-3/4" X 25-1/4"
W 17
1/4" X 1-1/2" X 24-3/16"
BELLCRANK
HINGE
BOTTOM SHEET ALL 3/32"
W 19
1/16" WIRE
3/8" X NO. 4 SHEET SCREWS
CLEVIS
HORN
WING SECTION AT W5
BUD NOSEN MODELS
102 inch P51
LEFT WING
PLATE 3 of 3